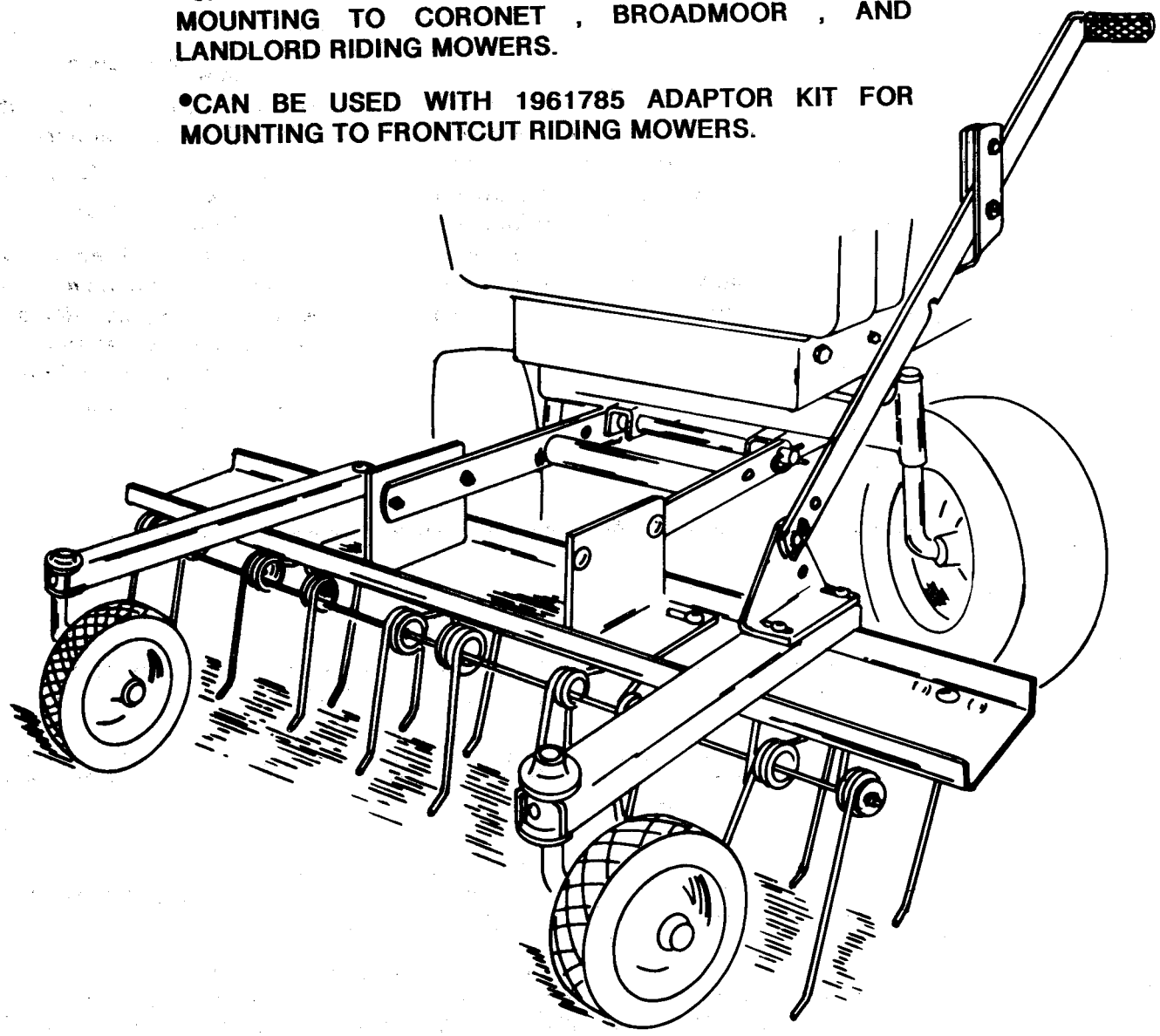
OPERATOR'S MANUAL
LAWN THATCHER

1690819

- FOR USE ON REGENT RIDING MOWER.
- CAN BE USED WITH 1692200 ADAPTOR KIT FOR MOUNTING TO CORONET , BROADMOOR , AND LANDLORD RIDING MOWERS.
- CAN BE USED WITH 1961785 ADAPTOR KIT FOR MOUNTING TO FRONTCUT RIDING MOWERS.



FORM 1673040
PRINTED IN U.S.A.

Safety Rules

Read these safety rules and the safety rules in your rider Operator's Manual and follow them closely. Failure to obey these rules could result in loss of control of vehicle, severe personal injury to yourself or bystanders, or damage to property or equipment. The triangle ⚠ in the text signifies important cautions or warnings which must be followed.

⚠ WARNING

Disengage mower and turn off engine before removing thatcher. Do not remove thatcher while mower is running.

⚠ WARNING

Do not remove any part of the thatcher or make any adjustment while the engine is running.

ALL WARNING, CAUTION, and instructional messages on your tractor and attachment should be carefully read and obeyed. Personal bodily injury can result when these instructions are not followed.

⚠ WARNING

Never operate mower without safety rods installed.

⚠ WARNING

Stop engine and remove ignition key whenever you leave operating position and before making repairs, adjustments, or inspections.

This product is manufactured specifically for Simplicity Manufacturing Company, by Brinly-Hardy Company.

"**IMPORTANT:** THIS MANUAL CONTAINS INFORMATION FOR THE SAFETY OF PERSONS AND PROPERTY. READ IT CAREFULLY BEFORE ASSEMBLY AND OPERATION OF THE EQUIPMENT!"

LIMITED WARRANTY

Brinly-Hardy Company warrants only to the orginal retail purchaser that this product will remain free of defects in workmanship and materials under normal use and service for a period of two(2) years (NOTE: ninety (90) days for commercial or rental use) commencing with the date of purchase.

Any parts found to be defective within the warranty period will be replaced, with proof of date of purchase, at Brinly Hardy Company's expense. Our obligation under this warrranty is expressly limited to replacement or repair, at our option of parts which are defective in material or workmanship within thirty (30) days of receipt of the parts. This warranty does not apply to damage caused by unreasonable use, including failure to provide necessary maintenance, nor does it apply to any transportation or labor charges.

WE MAKE NO OTHER EXPRESS WARRANTY NOR IS ANYONE AUTHORIZED TO MAKE ANY ON OUR BEHALF. ANY IMPLIED OR STATUTORY WARRANTIES, INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED TO THE DURATION OF THIS WRITTEN WARRANTY. WE SHALL NOT BE LIABLE FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES OF ANY KIND.

MADE IN U.S.A.

LAWN THATCHER

ASSEMBLY – OPERATION – MAINTENANCE – PARTS LIST

Introduction

The thatcher will effectively dislodge excessive thatch from your lawn. Thatch is a layer of stems, clippings, runners, roots and leaves that have not decayed. Excessive thatch prevents air, water and fertilizer from reaching the roots. Read these instructions to avoid improper assembly and operation.

Assembly

NOTE:

All references to left and right are made from the operator's position while seated on the tractor. A "Standard Fastener Identification Chart" is provided to assist you during assembly.

FIG. 1. Install the wheel supports (B) to the tine tray (C), using four ¼" x 2½" carriage bolts (D) and hex lock nuts (E). Attach the lift bracket (A) to the left wheel support as shown in Fig. 1. Tighten securely.

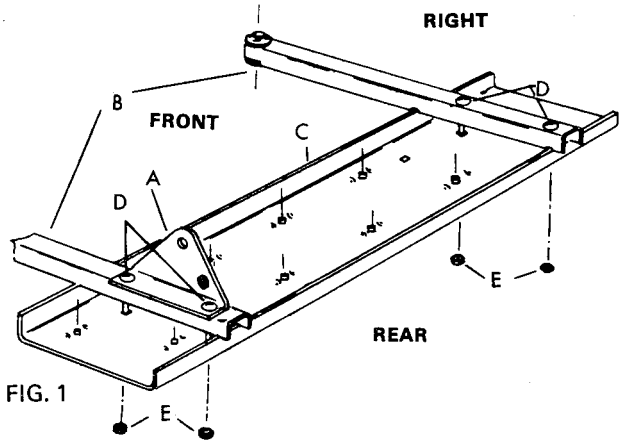


FIG. 1

FIG. 2. Attach the tray brackets (A) to the tine tray (B) as shown in Fig. 2, with the upright portion inward, using four 5/16" x 1" carriage bolts (C), two thick flat washers (D) as shown, and four lock washers (E) and hex nuts (F). Finger tighten only.

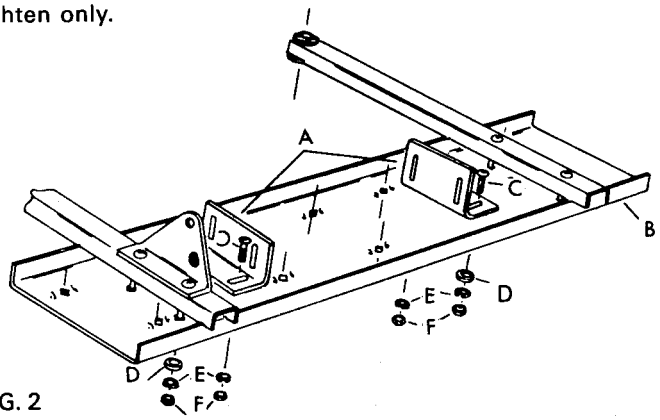


FIG. 2

FIG. 3. Attach the thatching tines (A) to the tine tray (B), using the 5/16" x 1" carriage bolts (C), thick flat washers (D), lock washers (E), and hex nut (F). Attach two tines to tray bracket bolts as shown. **IMPORTANT: Make sure the loop between the tine coils nests inside the projections on the tine tray.**

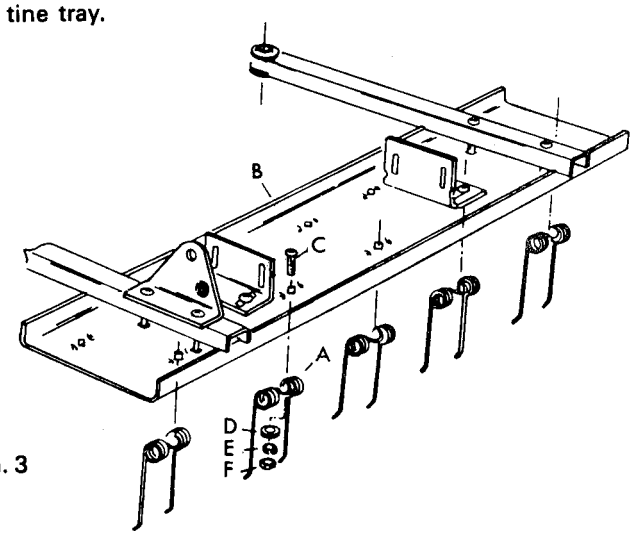


FIG. 3

FIG. 4. Insert the safety rods through the coils of the tines (A) as shown. Secure with large washers (B) and ¼" hex lock nuts (C). Do not overtighten nuts. Rods must be free to move slightly from side to side.

WARNING: Failure to install safety rods can result in personal injury if a tine should disengage from the tine tray.

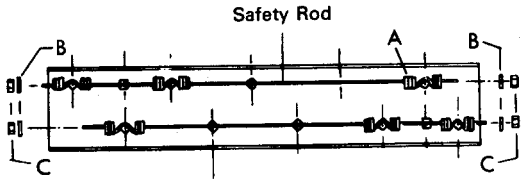


FIG. 4

FIG. 5. Mount the main frame (A) to the inside of the tray brackets (B). Secure with four 5/16" x 1" carriage bolts (C) lock washers (D), and hex nuts (E). Tighten all bolts securely.

NOTE:

It will be necessary to adjust the tray brackets from side to side to match the width of the main frame.

FIG. 5

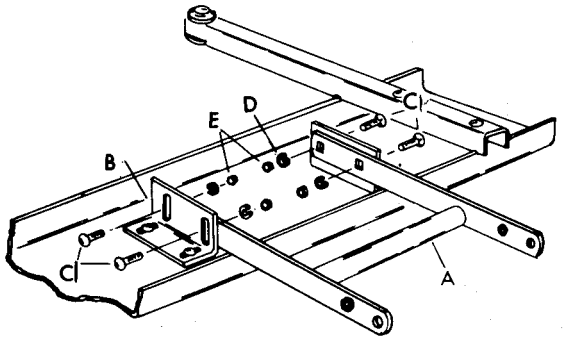


FIG. 6. Assemble the two gauge wheels (A) onto axles (B) as shown, using a ½" flat washer (C) on both sides of the wheel. Then, (using a hammer), drive a push nut (D) over each axle end.

FIG. 6

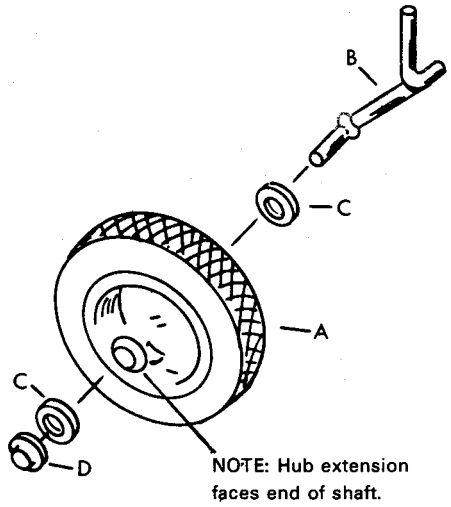


FIG. 7. Insert set screws (A) into both lock collars (B). Assemble locking collar and two nylon bearings (C) inside each wheel support (D), as shown. Slide axle and gauge wheel assembly (E) through bearings and locking collar. Temporarily tighten set screw.

FIG. 7

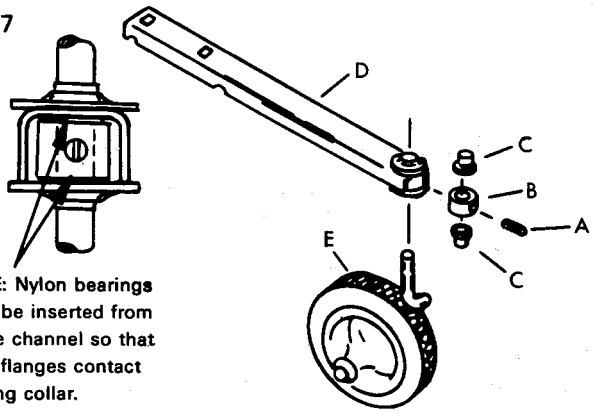


FIG. 8. Attach strap (A) to lift handle support bracket (B) using two 5/16" x 1" carriage bolts (C) and lock washers (D), and four hex nuts (E) as shown. NOTE: Two of the hex nuts are used as spacers. Tighten securely.

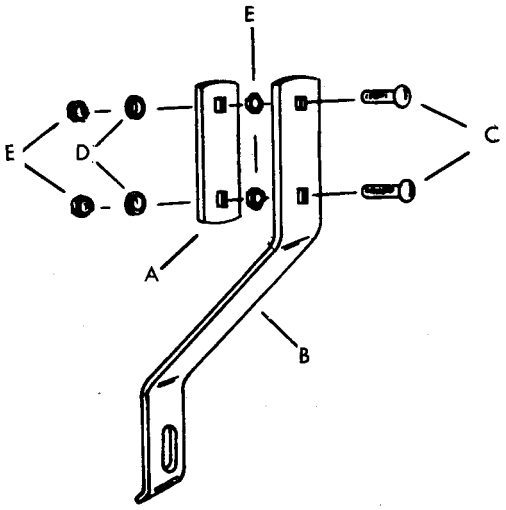


FIG. 8

FIG. 9. Insert 5/16" x 1" hex bolt (A) through the forward-most hole in the left side of the tractor frame from the inside out, through lift handle support bracket assembly. Secure with plain washer (B), lock washer (C), and hex nut (D). Be sure tab on lift handle support bracket is up against the tractor frame. Tighten securely.

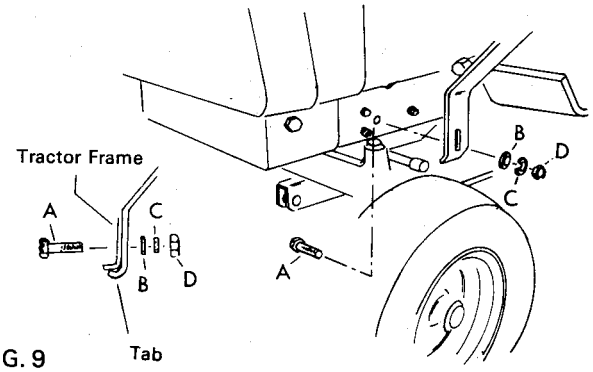


FIG. 9

Mounting

FIG. 10. Turn tractor wheels to the left and align the main frame (A) with the tabs located on the front of the tractor axle (B) and slide the pivot rod (C) through the holes in the main frame and axle. Secure in place with two hair pin cotters (D).

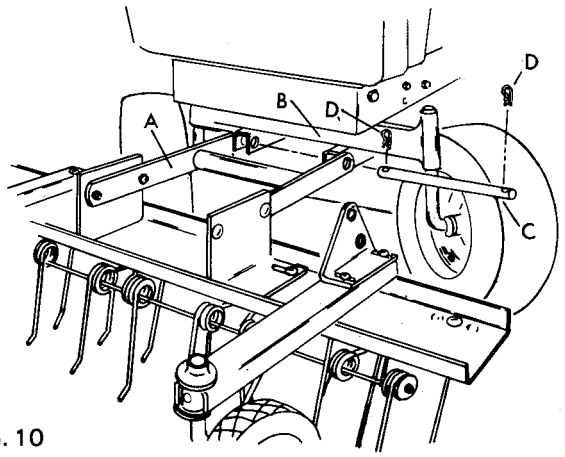


FIG. 10

FIG. 11. Slide the lift handle (A) through the slot in the lift handle support bracket with locking notch downward. Attach the lift handle to lift bracket (B) using the 5/16" pin (C), three plain washers (D), and a hair pin cotter (E). Adjust lift bracket (B), if necessary, to assure lift handle will not bind in support bracket. Slide handle grip (F) over handle.

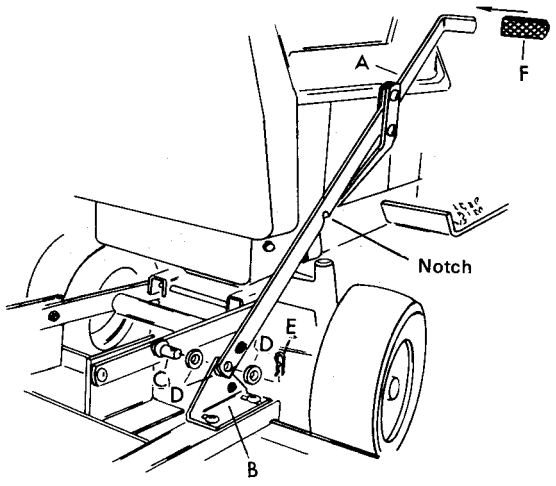


FIG. 11

Adjustment

NOTE:

For most lawns, adjust the thatcher as follows:

1. Select a smooth flat surface such as a driveway, sidewalk, garage floor, etc. Attach the thatcher to the tractor according to the mounting instructions. Be sure both gauge wheels are directly under the wheel support.
2. Loosen the four nuts on the sides of the "L" shaped tray mounting brackets, and the gauge wheel set screws. Adjust the tine tray to place the tine tips approximately ½" above the flat surface when in free position and to touch the flat surface when pushed back.
3. Tighten all lock nuts and gauge wheel set screws.

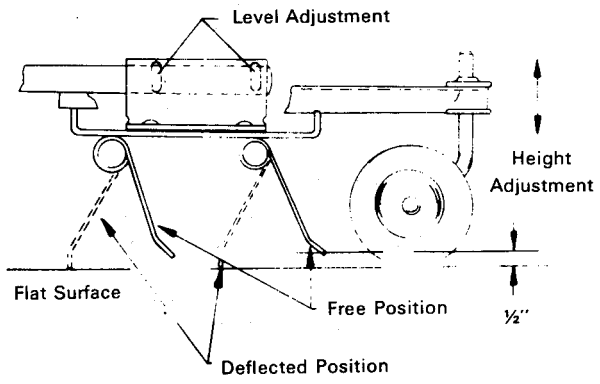


FIG. 12

Operation

Tine action – Grass should be less than 3" tall for proper tine action. When in use, all tines on the thatcher should deflect back (independently) and "flip" the thatch forward, as shown in Fig. 13. If the tines seem to drag without flipping forward, the tine tray is too low and should be raised. If all the tines stay in the free position, the tray should be lowered. Make adjustments as necessary, up or down, by no more than ¼" each time until proper results are achieved. See ADJUSTMENT instructions.

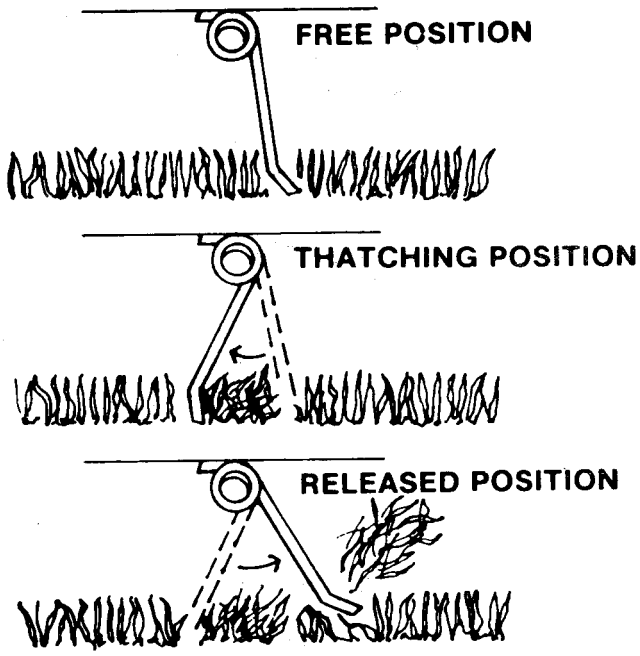


FIG. 13

When To Use

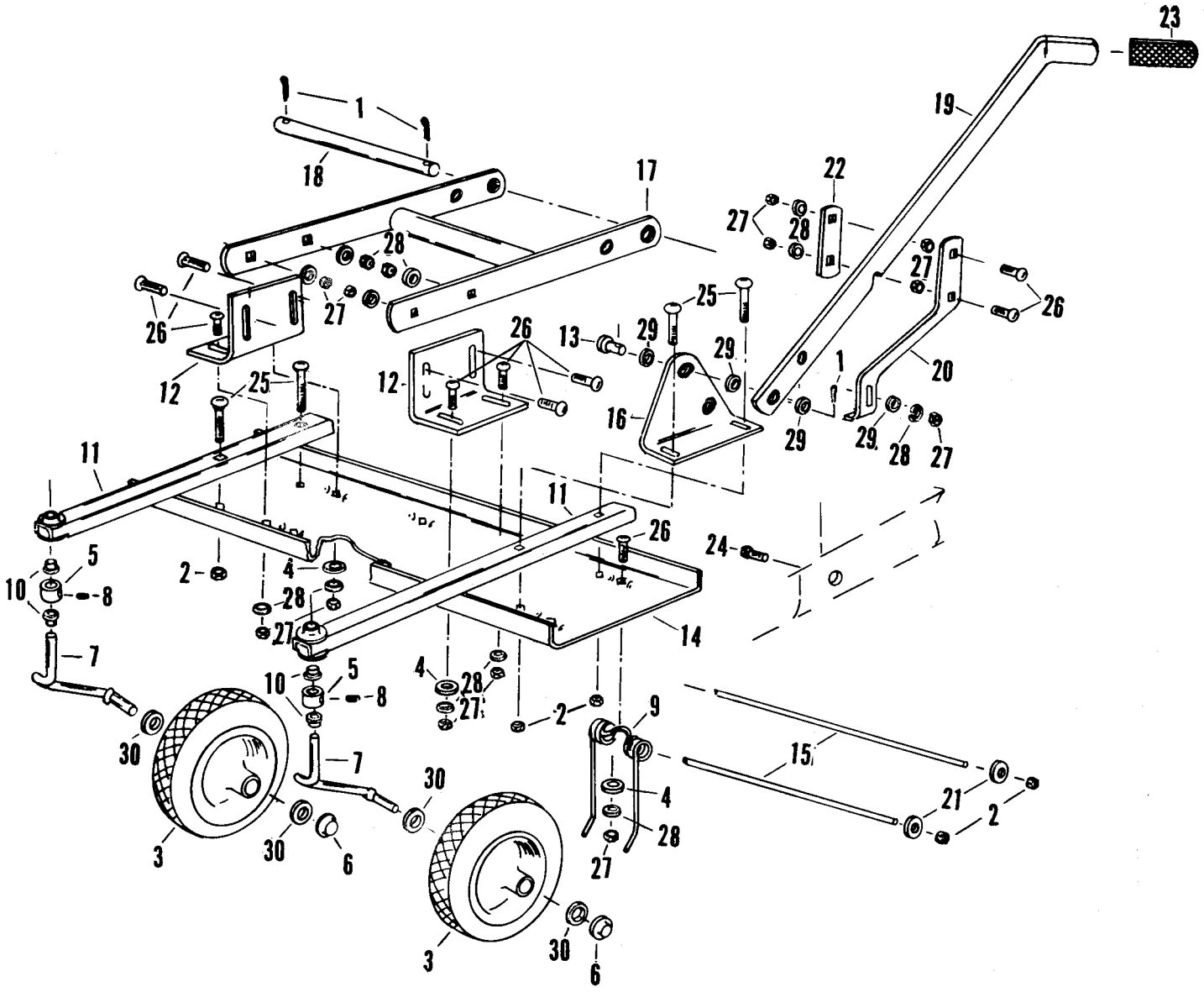
Every lawn is different, so there are no set rules about when to use the thatcher. Some lawns are very dense and the thatcher should be used about every third or fourth cutting. Lawns that are less dense would require less thatching. In general you want to leave a very thin layer of thatch (about ⅛") in your lawn. This is enough to shade the grass roots from direct sunlight, yet allow plenty of air, water and fertilizer to get to the roots for nourishment.

Maintenance

The thatcher is maintenance free. However, as with any steel product, it can rust. For rust on the tines, apply a light coat of oil. For rust on the tray or mounting brackets, just sand lightly and coat with enamel. Always store the thatcher in a dry area.

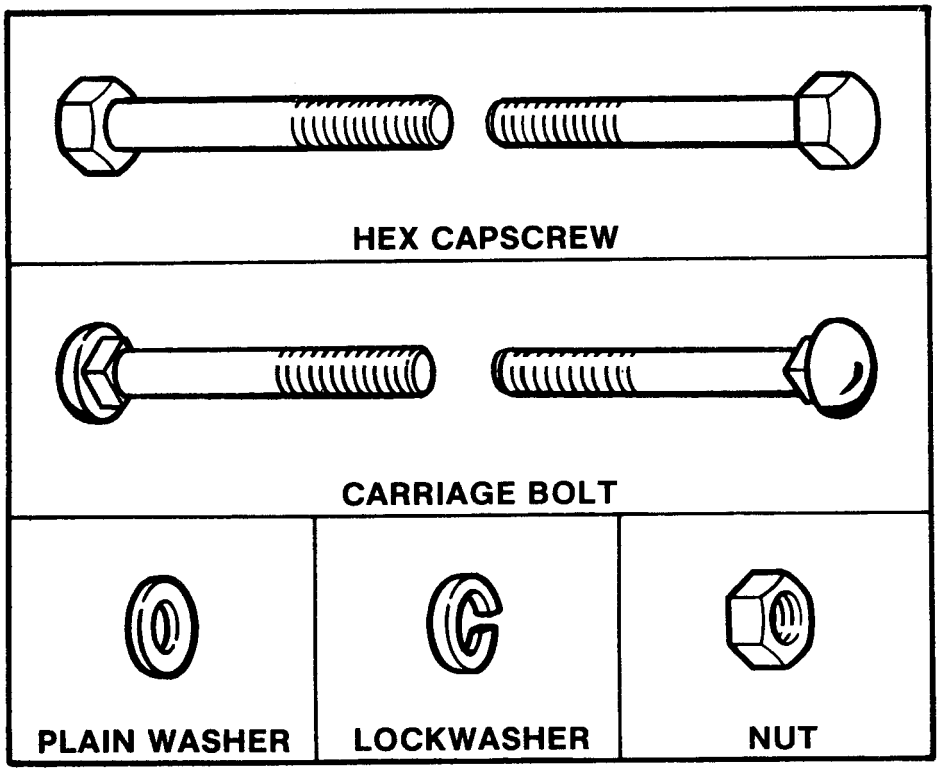
PARTS LIST

TO ORDER PARTS:
Brinly-Hardy Co.
P. O. Box 1116
Louisville, Ky. 40201



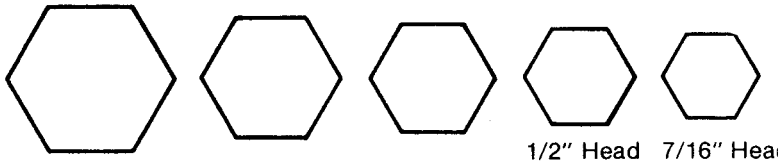
REF. NO.	PART NO.	DESCRIPTION
1	B-983	Hair pin cotter
2	B-1673P	Hex lock nut, ¼"
3	C-123	Gauge wheel
4	R-618	Reinforcing washer (special)
5	R-635-01	Locking collar
6	R-636	Push nut
7	R-637-01	Axle
8	R-640	Set screw (slotted), 5/16"
9	R-653	Thatching tine
10	R-704	Nylon bearing, ½"
11	R-705-10	Wheel support
12	R-721-10	Bracket (tray mounting)
13	R-746	Lift pin
14	R-755-10	Tray
15	R-756	Tine safety rod

REF. NO.	PART NO.	DESCRIPTION
16	R-1835-10	Bracket (lift)
17	R-764-10	Mounting frame
18	R-767-01	Pivot rod
19	R-1834-10	Lift handle
20	R-769-10	Lift lock bar
21	R-774	Tine rod washer
22	R-775-10	Handle retaining strap
23	R-803	Handle grip
24	1M1016P	Hex bolt, 5/16" x 1"
25	10M0840P	Carriage bolt, ¼" x 2½"
26	11M1016P	Carriage bolt, 5/16" x 1"
27	30M1000P	Hex nut, 5/16"
28	40M1000P	Lock washer, 5/16"
29	45M1111P	Plain washer, 5/16"
30	45M1717P	Plain washer, ½"



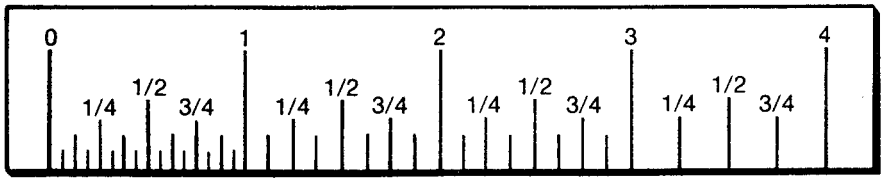
HEX CAPSCREW INDENTIFICATION

Shown below are actual size hex heads for standard screw sizes. Example: a 1/4" screw has a 7/16 head and thus requires a 7/16 wrench. To measure length, use the scale below.



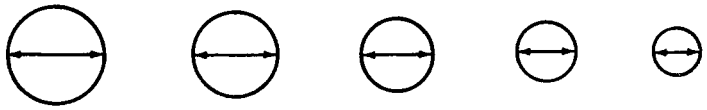
3/4" Head screw with 1/2" S.D. | 5/8" Head screw with 7/16" S.D. | 9/16" Head screw with 3/8" S.D. | 1/2" Head screw with 5/16" S.D. | 7/16" Head screw with 1/4" S.D.

S.D. = Shaft Diameter



WASHER AND NUT IDENTIFICATION

Place the washer or nut on circles below to determine inside diameter.



1/2" **7/16"** **3/8"** **5/16"** **1/4"**

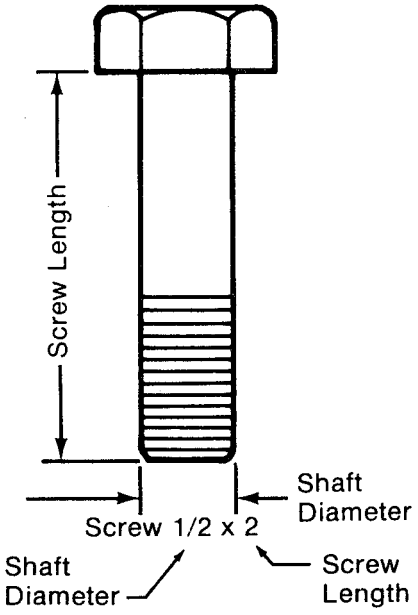
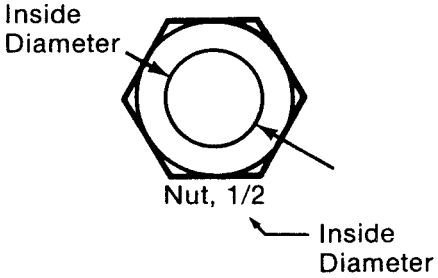
STANDARD FASTENER IDENTIFICATION CHART

Hardware sizes are given in the illustrations throughout this manual.

If a washer or nut is identified as "washer, 1/2" or "nut, 1/2", this means the inside diameter is 1/2 inch.

If a screw is identified as "screw, 1/2 x 2", this means the shaft diameter is 1/2 inch and the shaft of the screw is 2 inches long. If a screw is identified as "screw, 1/2-16 x 2", the number "16" means that the screw has 16 threads per inch.

SAMPLE: SCREW IDENTIFICATION



SAMPLE: NUT IDENTIFICATION